

Missouri  
State Fleet Efficiency  
and  
Alternative Fuel Program

Annual Report  
State Fiscal Year 2016



Department of Economic Development  
Division of Energy

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Eric R. Greitens  
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**DIVISION OF ENERGY**

The Fuel Conservation for State Vehicles Program statute, Sections 414.400 - 414.417 RSMo, and the federal Energy Policy Act establish guidelines for Missouri state agencies to manage transportation fuel consumption and promote the use of clean domestic alternative fuels.

All state agencies are obligated to report their progress annually to the department's Division of Energy for the development of the Missouri State Fleet Efficiency and Alternative Fuels Program Annual Report.

We submit for your consideration this report for state fiscal year 2016 on state fleet efficiency and alternative fuels use.

Sincerely,

~~DIVISION OF ENERGY~~



Kristy Manning  
Director

KM:jrl



# Table of Contents

<b>I.</b>	<b>Executive Summary .....</b>	<b>1</b>
<b>II.</b>	<b>Introduction .....</b>	<b>4</b>
<b>III.</b>	<b>Annual Fuel Consumption .....</b>	<b>5</b>
<b>IV.</b>	<b>Average Fleet Fuel Economy.....</b>	<b>7</b>
<b>V.</b>	<b>Alternative Fuel Use and Alternative Fuel Vehicle Acquisitions.....</b>	<b>9</b>
<b>VI.</b>	<b>Operating Cost .....</b>	<b>12</b>
<b>VII.</b>	<b>Program Status .....</b>	<b>13</b>
<b>VIII.</b>	<b>Program Recommendations.....</b>	<b>14</b>
	<b>Appendix A - Federal and Missouri Alternative Fuel Acts: Comparison of Key Provisions.....</b>	<b>A-1</b>
	<b>Appendix B - Missouri State Fleet Performance Measurement Tables .....</b>	<b>B-1</b>
	<b>Appendix C – Definitions and Unit Consumption Conversion Table of Motor Vehicle Fuels....</b>	<b>C-1</b>
	<b>Appendix D - State Fleet Summary Tables and Fleet Data by State Agency.....</b>	<b>D-1</b>

## I. Executive Summary

The transportation sector in Missouri is responsible for a large portion of energy consumption. Of the 1,904 trillion BTU that were consumed in the state in 2014, according to the latest data available from the U.S. Energy Information Agency, the transportation sector was responsible for 29 percent of that amount.

The Missouri General Assembly set standards for economically and environmentally responsible state fleet management by enacting Sections 414.400 - 414.417, Revised Statutes of Missouri (RSMo), also known as the Fuel Conservation for State Vehicles Program (Appendix A). The intent of this legislation is to encourage the increase of the average fuel efficiency of the state fleet and the use of cleaner alternative transportation fuels in state vehicles. The statute provides for an annual state fleet report to be compiled by the Department of Economic Development.<sup>1</sup> The annual state fleet report is compiled by the Division of Energy and includes, but is not limited to, annual fuel consumption, number of vehicles operated, vehicle miles traveled, average fleet fuel economy, estimated cost savings, and the state's use of alternative fuels. Fleet data submitted to the department by the reporting agencies is provided in Appendix D. This report covers fiscal year (FY) 2016, July 1, 2015 through June 30, 2016.

All Missouri state agencies (or "agencies") are required to comply with the statute and are subject to one or both of the fleet efficiency and alternative fuel requirements. Agencies report annually to the department's Division of Energy (the "division"), vehicle operating data on their respective fleets that includes the information listed above. The statute includes light-duty vehicles which are defined as vehicles under 8,500 pounds gross vehicle weight rating. State agencies operated a total of 12,312 vehicles during fiscal year 2016 (Table 3), of which 4,487 qualified to meet the vehicle fuel efficiency and alternative fuel requirements (eligible vehicles) as described in the statutes. Another 7,825 vehicles were reported as exempt from meeting those requirements (exempt vehicles).

For the eligible vehicles, agencies reported logging a total of 48,531,085 miles and using 2,074,850 gallons of gasoline; 124,446 gallons of 85 percent ethanol (E85), including E85 used in exempt vehicles; 170 gallons of propane, including propane in exempt vehicles; 4,755 kilowatt hours (kWh) of electricity (141.2 gasoline gallon equivalents or GGE), and zero cubic feet of Compressed Natural Gas (CNG). In FY 2016, state employees drove 3 percent more state fleet miles than in FY 2015. Gasoline usage increased by 1.9 percent; E85 usage decreased by 5.1 percent; propane usage decreased by 55.3 percent; and CNG usage remained at zero.

Agencies also reported the use of biodiesel in state vehicles in FY 2016 and although biodiesel will normally be used in vehicles designated as exempt under the statute, the U.S. Department of Energy (US DOE) defines biodiesel blended at levels of 20 percent<sup>2</sup> or greater an alternative fuel.

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<sup>1</sup> Per Executive Order #13-03, the Division of Energy was transferred from the Department of Natural Resources to the Department of Economic Development effective August 28, 2013. The transfer included "all authority, powers, duties, functions, records, personnel, property, contracts, budgets, matters pending, and other pertinent vestiges" of the division. Therefore, the reporting requirements fall under the responsibility of the Department of Economic Development (the "department"). Executive Order #13-03 can be found at [http://www.sos.mo.gov/library/reference/orders/2013/eo13\\_003](http://www.sos.mo.gov/library/reference/orders/2013/eo13_003).

<sup>2</sup> A biodiesel blend level of 20 percent is the most commonly used.

For purposes of this report and to ensure reporting consistency, the reported quantities for blends of biodiesel less than the 100 percent blend level have been converted to its equivalent if purchased at a 100 percent level. Using this conversion, the combined total of biodiesel used by state agencies during the reporting period was 247,801 gallons which equates to 1,239,005 gallons of biodiesel blended at the 20 percent level. A significant factor aiding the Missouri Department of Transportation's (MoDOT) biodiesel consumption is its on-site access to biodiesel fuel.

The National Highway Traffic Safety Administration (NHTSA) is required by the Energy Independence and Security Act of 2007 (EISA) to set a minimum fuel economy standard for domestically manufactured passenger cars in addition to the attribute-based passenger car standard. The agency's estimates for the model year (MY) 2016–2018 Corporate Average Fuel Efficiency (CAFE) standards are provided in the Average Fleet Fuel Economy section of this report.

NHTSA has established fuel economy standards for the combined industry-wide fleet that increase each year reaching an estimated 40.8 mpg by MY 2020. Per rules established and published in the Federal Register May 7, 2010, starting with MY 2012 vehicles, automakers are required to improve fleet-wide fuel economy and reduce fleet-wide greenhouse gas emissions by approximately five percent each year.

During the 2016 fiscal year, the overall average fuel efficiency of new vehicles reported by agencies was 40.8 mpg for passenger cars and 31.3 mpg for light-duty trucks.<sup>3</sup> All but two (2) of the 31 reporting agencies that purchased passenger cars or light duty trucks exceeded the required CAFE standards.

The Commissioner of the Office of Administration (OA) is required to ensure that at least 70 percent of new state fleet vehicles are flexible fuel vehicles (Section 37.455). As determined by the US DOE, state fleets may satisfy their Alternative Fuel Vehicle (AFV) acquisition requirements in model year 2014 and later by acquiring light duty non-AFV Hybrid Electric Vehicles (HEV). An agency will earn one-half credit for the acquisition of each non-AFV HEV. Of the 30 reporting state agencies, 13<sup>4</sup> met or exceeded the statutory requirement, ten (10) state agencies did not meet the statutory requirement, and seven (7) agencies were not required to meet the statutory requirement.<sup>5</sup>

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<sup>3</sup> Note that the CAFE numeric system awards additional credit for purchase of alternative fuel vehicles. This credit can significantly increase the CAFE rating of vehicles purchased and accounts for the high overall efficiency of new vehicles acquired.

<sup>4</sup> The agencies include Dept. of Agriculture, Dept. of Corrections, Dept. of Conservation, Dept. of Elementary and Secondary Ed., Dept. of Health and Senior Services, Dept. of Insurance (DIFP), Dept. of Labor, Dept. of Mental Health, Dept. of Natural Resources, Dept. of Public Safety, Dept. of Social Services, Secretary of State, and the University of Missouri.

<sup>5</sup> By statute, a state agency is not required to meet the AFV purchasing requirement if it did not purchase any new vehicles or they operated 15 or fewer eligible vehicles.

The statute requires that at least 30 percent of all fuel used in eligible, state-owned AFVs, be the designated alternative fuel. During FY 2016, six percent of all fuel used in eligible AFVs was the designated alternative fuel. However, the statute provides for state agencies to take credit toward meeting their 30 percent goal by including the use of alternative fuel in exempt vehicles in the numbers reported. When the biodiesel used to refuel exempt diesel vehicles and the other fuels used in exempt AFVs are included in the calculation, the percent of alternative fuel reported used rose to 19 percent, 1 percent higher than the previous year.

Agencies use Executive Order (EO) 95-05<sup>6</sup>, which provides guidelines for when to consider E85 price competitive, as a guide in determining the feasibility of using alternative fuel when refueling. The division has worked throughout the reporting period to promote the continued and increased use of alternative fuels and has provided technical and programmatic assistance to state agencies. MoDOT continues to install signage at exits along divided highways to indicate alternative fuels availability.

In addition, the division worked with MoDOT and other stakeholders across the state to develop Missouri's nomination for alternative fuel corridors in response to the FHWA-2016-0017 Notice by the Federal Highway Administration (FHWA). The interstates nominated as alternative fuel corridors included I-70, I-55, I-49, I-44, I-35, and I-29. The FHWA accepted the nominations for each of the roadways listed and designated portions of all but I-49 as "signage ready." The remaining sections of interstate were designated "signage pending," awaiting build-out of further alternative fuel infrastructure.

Missouri's energy supply must be diverse and secure. The efficient use of energy helps maximize our financial and natural resources. By using less energy, our businesses can produce products with lower overhead, improve our gross state product and free up capital to create more jobs and economic growth.

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<sup>6</sup> [http://www.sos.mo.gov/library/reference/orders/1995/eo1995\\_005.asp](http://www.sos.mo.gov/library/reference/orders/1995/eo1995_005.asp)



## II. Introduction

The Missouri General Assembly set standards for economically and environmentally responsible state fleet management by enacting Sections 414.400 - 414.417, RSMo, also known by the title Fuel Conservation for State Vehicles Program (Appendix A). The intent of this legislation is to encourage an increase of the average fuel efficiency of the state fleet and the use of cleaner alternative transportation fuels in state vehicles. The statute provides for an annual state fleet report to be compiled by the department which includes, but is not limited to, annual fuel consumption, number of vehicles operated, vehicle miles traveled, average fleet fuel economy, estimated cost savings and the state's use of alternative fuels. The annual state fleet report is compiled by the Division of Energy. Fleet data submitted to the department by the reporting agencies is provided in Appendix D. This report covers the period of fiscal year 2016, July 1, 2015, through June 30, 2016.

All Missouri state agencies (or "agencies") are required to comply with the statute and are subject to one or both of the fleet efficiency and alternative fuel requirements. The statute covers passenger cars and light-duty vehicles, defined as those under 8,500 pounds gross vehicle weight rating. The department is required to prepare an annual report on the Fuel Conservation for State Vehicles Program. State agencies that do not meet the requirements for purchase of alternative fuel vehicles must obtain a waiver from the OA before purchasing any light-duty vehicle other than an AFV. OA is required to ensure compliance with purchasing guidelines of AFVs and efficiency standards of conventional fuel vehicles.

State agencies have the opportunity to stretch operating budgets through greater fleet efficiency and to demonstrate approaches that reduce fuel consumption, manage travel efficiently and use cleaner alternative fuels. This program also offers opportunities for interagency communication and cooperation.

Based on statutory requirements<sup>7</sup>, the following are the Fuel Conservation for State Vehicles Program objectives:

- *To achieve an efficient vehicle fleet.* State law requires state agencies to meet minimum guidelines for efficient vehicle fleet management as established by the department.
- *To realize environmental and economic benefits of using alternative transportation fuels.* State government is to operate vehicles on alternative fuels, such as 85 percent ethanol, propane, compressed natural gas or others, if the fuels are within the incremental life-cycle cost caps designated in the statute. The law establishes the maximum incremental life-cycle cost difference at 10 percent, except for vehicles to be used in clean air maintenance and non-attainment areas of Kansas City and St. Louis, where the allowable incremental cost difference is 17 percent.

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<sup>7</sup> All agencies of Missouri state government are subject to the provisions of the program, with the exception of the departments of Transportation and Conservation, which may develop fleet management plans independently. Certain off-road vehicles, special use vehicles, law enforcement vehicles and vehicles for which no published EPA CAFE standard exists are exempt from the provisions.

- *To increase the number of alternative fuel vehicles (AFV) in state fleets.* The Commissioner of the OA is required to ensure that at least 70 percent of new state fleet vehicles are flexible fuel vehicles (Section 37.455).
- *To increase the use of alternative fuels in state-owned vehicles.* At least 30 percent of the fuel used in state-owned AFVs is required to be an alternative fuel. Compliance with this requirement by individual agencies and in the aggregate is documented in annual reports submitted by the agencies to DE following the end of the fiscal year. Summary tables showing the fleet operating data in total and by the individual agencies can be found in Appendix B.<sup>8</sup>

### III. Annual Fuel Consumption

Shown in Table 1 is the annual fuel consumption reported by state agencies for state-owned vehicles operated during FY 2016. Gasoline, diesel, and alternative fuel consumption are compared for eligible, exempt, and all vehicles operated throughout the reporting period. Biodiesel consumption, shown in the table at the B100 blend level, is the majority of the alternative fuel used in exempt vehicles.

<b>Table 1</b> <b>FY 2016 Fuel Consumption</b>			
<b>Fuel Type</b>	<b>Eligible Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline (gallons)	2,074,850	5,630,217	7,705,067
Diesel (gallons)	37,767	2,825,255	2,863,021
Alternative Fuel (gge) *biodiesel is included as B100	81,660	274,968	356,628

Following the end of the fiscal year, both annual fuel consumption and annual fuel cost numbers are provided by state agencies to the department. Shown in Table 2 are the annual fuel cost numbers that directly correspond to the fuel consumption numbers shown in Table 1.

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<sup>8</sup> Through the Standard Compliance option, state fleets that are covered under the Energy Policy Act (EPAct) may meet their requirements each year by acquiring 75% AFVs as a percentage of their light-duty, non-excluded vehicle acquisitions.

<b>Table 2</b> <b>FY 2016 Fuel Cost</b>			
<b>Fuel Type</b>	<b>Eligible Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline	\$4,036,138	\$10,414,302	\$14,450,440
Diesel	\$79,987	\$4,935,869	\$5,015,856
Alternative Fuel	\$207,617	\$535,462	\$743,079
<b>Total</b>	<b>\$4,323,742</b>	<b>\$15,885,633</b>	<b>\$20,209,375</b>

To provide a measure of the overall operational fleet size, Table 3 shows the number of state-owned vehicles operated by state agencies in FY 2016. The numbers shown include all vehicles acquired, in continuous service, and retired from state service during the period. In Tables 3 and 4, diesel vehicles are shown as a separate entry even if they were fueled with biodiesel because diesel vehicles are not classified as AFVs.

<b>Table 3</b> <b>FY 2016 Number of Vehicles Operated</b>			
<b>Vehicle Type</b>	<b>Eligible Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline	1,848	3,669	5,517
Diesel	76	2,351	2,427
Alternative Fuel	2,563	1,805	4,368
<b>Total</b>	<b>4,487</b>	<b>7,825</b>	<b>12,312</b>

During FY 2016, the vehicle miles traveled in eligible state vehicles were 13,242,264 in gasoline and hybrid vehicles, 486,909 in diesel vehicles, and 34,801,912 in AFVs. Agencies are not required to submit the vehicle miles traveled in state vehicles that are exempt from fuel efficiency and alternative fuel reporting requirements.

Annual maintenance costs are factored into the total operating cost for state-owned vehicles. Shown in Table 4 are the annual maintenance costs incurred for the repair and upkeep of state-owned vehicles operated in FY 2016.

<b>Table 4</b> <b>FY 2016 Vehicle Maintenance Cost</b>			
<b>Vehicle Type</b>	<b>Eligible Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline	\$952,319	\$3,376,899	\$4,329,218
Diesel	\$103,424	\$7,343,485	\$7,446,909
Alternative Fuel	\$1,733,244	\$1,056,813	\$2,790,057
<b>Total</b>	<b>\$2,788,987</b>	<b>\$11,777,197</b>	<b>\$14,566,184</b>

Due to the differences in the collection and reporting among agencies, caution should be exercised when interpreting the reported maintenance cost numbers. For example, most agencies enter into vehicle repair and upkeep contracts with outside organizations while some agencies employ vehicle maintenance staff responsible for the repair and upkeep of agency vehicles.

#### **IV. Average Fleet Fuel Economy**

The statute requires that each agency's overall vehicle fleet fuel efficiency for eligible state vehicles meet or exceed the standards set by the federal government.

The rating system developed for measuring vehicle fuel efficiency referenced above, called CAFE, is a comprehensive fuel efficiency rating system that was developed to measure the vehicle fuel efficiency of vehicles sold in the United States. Since CAFE is an average, a company can sell vehicles that fall below the CAFE standards as long as the company's overall averages stay within the standards.

Per federal rules, starting with MY 2012 vehicles, automakers were required to reduce fleet-wide greenhouse gas emissions by approximately five percent each year and improve fleet-wide fuel economy to an estimated 40.8 mpg by MY 2020.

NHTSA is also required by the Energy Independence and Security Act of 2007 (EISA) to set a minimum fuel economy standard for domestically manufactured passenger cars in addition to the attribute-based passenger car standard. The minimum standard "shall be the greater of (A) 27.5 miles per gallon (mpg); or (B) 92 percent of the average fuel economy projected by the Secretary for the combined domestic and non-domestic passenger automobile fleets manufactured for sale in the United States by all manufacturers in the model year." Based on NHTSA's current market forecast, the agency's estimates of these minimum standards under the Augural MYs 2017-2025 CAFE standards are:

- 34.7 mpg for MY 2016 passenger cars<sup>9</sup>,
- 36.7 mpg for MY 2017 passenger cars, and

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<sup>9</sup>Station wagons are included under the passenger car category while light-duty trucks include pickups, sport utility vehicles (SUVs) and vans.

- 38.0 mpg for MY 2018 passenger cars.

Parameters established for the light truck fuel economy minimum targets are:

- 24.7 mpg for MY 2016 light duty trucks,
- 25.1 mpg for MY 2017 light duty trucks, and
- 25.2 mpg for MY 2018 light duty trucks.

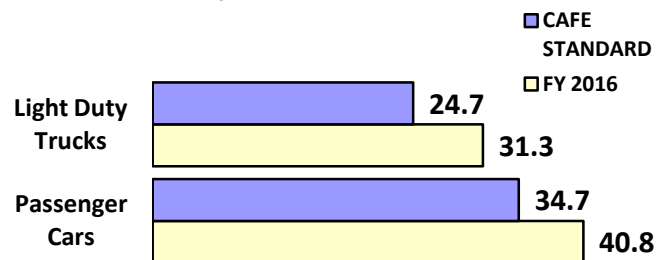
Acquisitions which are included in the computation of the average fleet fuel economy are only new vehicle acquisitions. By using this approach, emphasis is placed on the purchase of vehicles that meet or exceed the federal CAFE standards, and this approach is compatible with the federal Energy Policy Act of 2002 requirements.

As shown in Figure 1, state agencies exceeded the federal CAFE standard by purchasing new passenger cars with an average CAFE rating of 40.8 mpg. Agencies also exceeded the federal standard with new acquisitions of light-duty trucks by purchasing new light-duty trucks that earned an overall average CAFE rating of 31.3 mpg. Although other vehicles may have been purchased throughout the reporting period, only those vehicles not exempt from state vehicle fuel efficiency requirements were included in the averages.

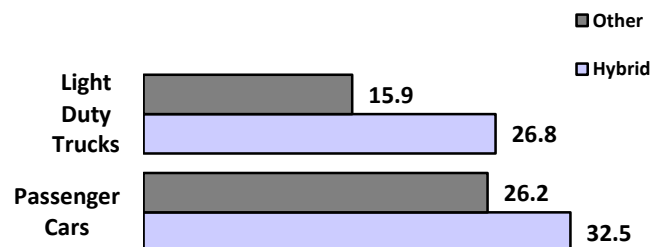
The CAFE rating system awards additional credit for purchasing alternative fuel vehicles. This higher rating can significantly increase the CAFE rating for these vehicles. Some examples of AFVs with higher ratings include the 2016 E85 Ford Focus, awarded a CAFE rating of 55.37 mpg, and the 2016 E85 Dodge Dart SE, awarded a CAFE rating of 47.68 mpg. All agencies made purchases that, on average, exceeded CAFE standards. For additional information, the CAFE ratings earned by each agency and the total ratings earned by the entire state fleet are shown in the fuel economy tables in Appendix B.

To help reduce fleet operating costs, some agencies countered higher fuel prices by placing more emphasis on driving fuel-efficient hybrid vehicles. Overall, as shown in Figure 2, state hybrid passenger cars achieved an average of 6.3 mpg greater than that of other gasoline-powered passenger cars operated by the state fleet. In the light-duty truck category, state hybrid vehicles achieved an average of 10.9 mpg greater than the state's other gasoline-powered light-duty trucks.

**Figure 1**  
**Average Fleet Fuel Economy of New Acquisition Vehicles (MPG)**



**Figure 2 - Missouri State Fleet**  
**Average Fleet Fuel Economy of Hybrid and Other Gasoline Vehicles (MPG)**



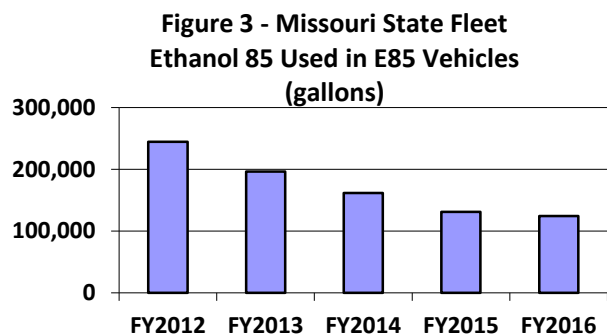
Hybrid-electric vehicles (HEVs) are primarily propelled by an internal combustion engine, just like conventional vehicles. However, HEVs also convert energy normally wasted during coasting and braking into electricity through a process known as regenerative braking. This process allows the generated electricity to be stored in a battery until needed by the electric motor. The electric motor is used to assist the engine when accelerating, climbing a grade, or in low-speed driving conditions where internal combustion engines are least efficient. Unlike all-electric vehicles, HEVs do not need to be plugged into an external source of electricity to be recharged. Conventional gasoline and regenerative braking provide all the energy the vehicle needs.<sup>10</sup>

As determined by the US DOE, state fleets may satisfy their AFV-acquisition requirements in model year 2014 and later by acquiring light duty non-AFV HEVs. An agency will earn one-half credit for the acquisition of each non-AFV HEV.

## V. Alternative Fuel Use and Alternative Fuel Vehicle Acquisitions

As defined by Section 414.400, RSMo, alternative fuels are those motor vehicle fuels that contribute to energy independence and improved air quality and are not substantially unleaded gasoline or diesel.

Both an alternative fuel and a renewable fuel, E85 is produced from 85 percent ethanol blended with 15 percent unleaded gasoline. As shown in Figure 3, during FY 2016, state-owned E85 vehicles consumed 124,446 gallons of E85 (including exempt E85 vehicle usage) and due to limited availability, unfavorable price differential for E85 and other refueling issues, also consumed 1,368,864 gallons of unleaded gasoline.

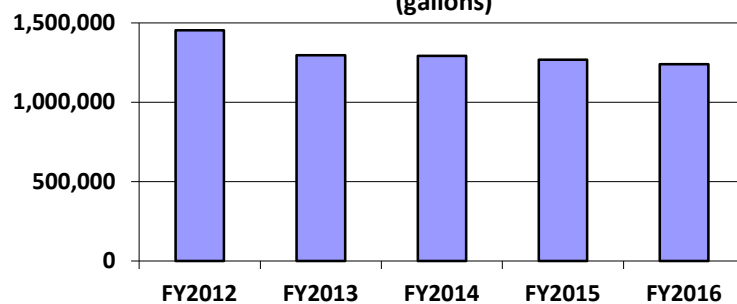


Biodiesel, another alternative fuel with renewable fuel content, is used in state-owned diesel vehicles even though diesel vehicles are not classified as AFVs and are generally exempt under the statute. Biodiesel blended at levels of 20 percent or greater is defined by the U.S. Department of Energy as both an alternative and renewable fuel. For federal reporting purposes and for the purposes of this report, the gallons of biodiesel used at the 20 percent or greater blend levels are combined and converted to a 100 blend level equivalent in gallons. When converted to the 100 percent blend level, state diesel vehicles consumed 247,801 gallons of biodiesel during the reporting period. As shown in Figure 4, this equates to 1,239,005 gallons of biodiesel blended at the 20 percent level.

<sup>10</sup>(Source: Fuel Economy Guide, U.S. Department of Energy & U.S. Environmental Protection Agency)

Throughout FY 2016, MoDOT and the Department of Public Safety (DPS) were the only agencies reporting biodiesel usage. MoDOT's on-site access to biodiesel fuel was a significant factor in their diesel and biodiesel consumption.

**Figure 4 - Missouri State Fleet  
Biodiesel (B20) Used in Diesel Vehicles  
(gallons)**



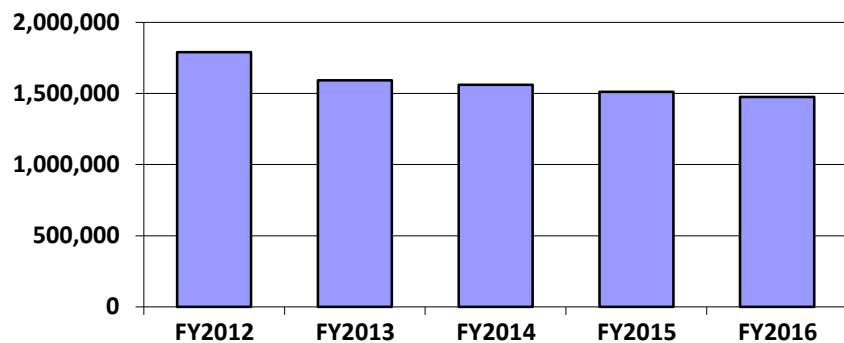
In addition to the alternative fuels that are processed from renewable sources, another alternative fuels group effectively reduces automobile emissions. This group includes propane, compressed natural gas, and electricity. During the reporting period, state vehicles consumed 170 gallons of propane; 4,755 kWh of electricity, and zero cubic feet of compressed natural gas.

Propane is offered at 5 retail outlets throughout the state and the number of compressed natural gas stations has increased and is now offered at nine (9) public retail refueling sites, as of the date of this report.

Figure 5 shows the total amount of alternative fuel used by the state in GGE over the last five (5) years. This number includes the alternative fuel used in exempt AFVs and the biodiesel used in exempt diesel vehicles. The state fleet consumed 1,476,302 GGE of alternative fuel in FY 2016, which equates to 19% of the total fuel consumption for the included vehicle types. Total alternative fuel consumption is down 36,432 GGE from FY 2015.

Another important aspect of alternative fuel use in state-owned vehicles is the percent of alternative fuel used in those vehicles. Many AFVs can be refueled with either the designated alternative fuel or regular unleaded gasoline. State statutes specify that 30 percent of all fuel used in state-owned AFVs should be the designated alternative fuel.

**Figure 5 - Missouri State Fleet  
Total Alt Fuel Use (GGE)**



A breakout of the alternative fuel usage by fuel types (Table 5) shows the percent of alternative fuel used in state AFVs was six percent E85 in flexible fuel E85 vehicles, six percent propane in dual-fuel exempt propane vehicles, and thirty percent biodiesel in exempt diesel vehicles. See Table 5 for the corresponding consumption numbers shown in gallons for gasoline and in GGE for the alternative fuels.

<b>Vehicle Fuel Type</b>	<b>Number of Vehicles</b>	<b>GAS/DSL (gal/GGE)</b>	<b>Alternative Fuel in GGE</b>	<b>Total Fuel in GGE</b>	<b>% Alternative Fuel Use</b>
B20 (exempt vehicles)	2,351	3,192,538	1,387,299	4,579,837	30%
E85	2,523	1,368,864	81,445	1,450,309	6%
E85 (exempt vehicles)	1,795	1,856,308	7,285	1,863,593	0%
Propane	4	2,424	0	2,424	0%
Propane (exempt vehicles)	10	2,077	132	2,209	6%
CNG	0	0	0	0	0%
CNG (exempt vehicles)	0	0	0	0	0%
Electric	16	0	141	141	100%
<b>Total (Eligible vehicles only)</b>	<b>2,543</b>	<b>1,371,288</b>	<b>81,586</b>	<b>1,452,874</b>	<b>6%</b>
<b>Total (Exempt vehicles only)</b>	<b>4,156</b>	<b>5,050,923</b>	<b>1,394,716</b>	<b>6,445,639</b>	<b>22%</b>
<b>Total</b>	<b>6,699</b>	<b>6,422,211</b>	<b>1,476,302</b>	<b>7,898,513</b>	<b>19%</b>

Missouri statutes include acquisition requirements for AFVs. The Commissioner of OA is required by statute to ensure that at least 70 percent of state fleet vehicle purchases are flexible fuel vehicles (Section 37.455 RSMo). Of the 30 reporting state agencies, 13<sup>11</sup> met or exceeded the statutory requirement, ten (10) state agencies did not, and seven (7) agencies were not required to meet the requirement.<sup>12</sup> A summary for each state entity, the acquisitions of AFVs and the percent of alternative fuel use are shown in Appendix B.

As shown in Table 6, state agencies have AFVs stationed at several locations in Missouri. Whether or not AFVs can be refueled with the designated alternative fuel is heavily dependent on where the vehicles are located. State employees are better able to refuel the vehicles with the designated alternative fuel if doing so is convenient. Vehicle location is also important with the EPA air quality requirements for both Kansas City and St. Louis. Jefferson City, because it is the

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<sup>11</sup>The agencies include Dept. of Agriculture, Dept. of Corrections, Dept. of Conservation, Dept. of Elementary and Secondary Ed., Dept. of Health and Senior Services, Dept. of Insurance (DIFP), Dept. of Labor, Dept. of Mental Health, Dept. of Natural Resources, Dept. of Public Safety, Dept. of Social Services, Secretary of State, and the University of Missouri.

<sup>12</sup>Agencies that did not purchase any new vehicles or operated 15 or fewer eligible vehicles were not required to meet the statutory requirement.



state capital, is the hub of state government activities. Many agencies locate at least some, if not all, of their vehicles in the Jefferson City area. The types of refueling sites in the Jefferson City area include E85 and biodiesel.

<b>Table 6</b> <b>Number of Alternative Fuel Vehicles Based at Fleet Locations</b>					
	<b>FY'12</b>	<b>FY'13</b>	<b>FY'14</b>	<b>FY'15</b>	<b>FY'16</b>
Jefferson City	1,697	716	1,269	1,322	1,487
Kansas City	422	433	453	449	413
St. Louis	370	296	361	377	377
Other	1,915	2,001	1,854	1,834	2,071
<b>Total</b>	<b>4,404</b>	<b>3,446</b>	<b>3,937</b>	<b>3,982</b>	<b>4,348</b>

## **VI. Operating Cost**

In order to compare the operating cost of AFVs to traditional fuel vehicles, operating cost data submitted by the agencies to the division is converted into an average operating cost per mile. As shown in Table 7 for eligible vehicles, the vehicle operating costs are broken out by maintenance, fuel and the total cost.

<b>Table 7</b> <b>Average Eligible Vehicle Operating Cost for FY 2016</b> <b>(in cents per mile)</b>			
<b>Vehicle Type</b>	<b>Maintenance</b>	<b>Fuel</b>	<b>Total</b>
Hybrid Truck	5.0	7.1	12.2
Hybrid Auto	4.6	5.8	10.5
E85 Auto	4.5	7.1	11.7
Gas Auto	5.4	7.0	12.5
E85 Truck	5.3	10.0	15.4
Gas Truck	8.4	12.6	21.1
Diesel Truck	17.9	17.9	35.9
Diesel Auto	36.0	9.7	45.9
LPG Truck	12.4	20.0	32.5
Electric	143.0 <sup>13</sup>	2.5	145.5

<sup>13</sup> High maintenance cost per mile for electric vehicles was due primarily to relatively low number of vehicles and miles driven along with battery replacements. It is expected that mileage will increase as recharging infrastructure becomes more widespread across the state and lead to greater utilization of EVs, thus reducing cost per mile.

## VII. Program Status

Participating state agencies submitted annual operating data on agency vehicle operations and acquisitions made during fiscal year 2016. In recent years, a majority of vehicle purchases in all agencies have met CAFE standards, and as a result the average fuel efficiency realized for cars and light trucks operated by agencies is expected to significantly increase in the coming years. Compliance with the purchasing requirements is tracked by Office of Administration, MoDOT, Department of Conservation and higher education institutions.

The numbers and types of AFVs currently available to state agencies and the public from manufacturers are steadily increasing. All major U.S. vehicle manufacturers are producing AFVs. The number of publicly available alternative fuel stations<sup>14</sup> is also increasing mainly due to the sharp rise in electric charging infrastructure. At the time of printing this report, 94 E85 refueling stations and nine public CNG refueling stations were operating in the state. 5 propane refueling sites are located throughout Missouri. In addition, 314 electric recharging stations and 1,331 charging outlets were operating in the state.

Over the past year, one factor in the reduced use of E85 was the unfavorable price differential with conventional gasoline on an energy equivalence basis. On this basis, according to the Alternative Fuels Data Center July 2015 Alternative Fuel Price Report, the average price of E85 was 25 cents above the price of gasoline. By the release of the April 2016 report, this price differential jumped to 33 cents. The division and industry representatives have worked to encourage further use of alternative fuels in the appropriate AFVs. Information tools made available to encourage alternative fuel use include the following:

- Alternative fueling station locator [iPhone](#) and [Android](#) apps have been provided to state fleet managers to pass on to their respective agencies as a means for easily locating alternative fueling stations. The division is working with ITSD to make it a standard application provided on state issued phones.
- MoDOT continues to install signage for E85 along divided highways at exits where alternative fuels are available. In addition, the department has designed alternative fuel signs for state agencies to place at their respective fleet lots. These signs remind state employees to refuel with the appropriate alternative fuel in AFVs whenever possible.
- OA carpool vehicles have clearly designated insignia relating to FFVs.
  - o Packets/binders are provided to users of carpool vehicles that are color coded indicating whether the vehicle is E85-capable – white packets indicate E85-capable.
  - o Packets for FFVs include a bannered cover page which says “This is a flex-fuel vehicle. Please use E85 whenever possible.”

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<sup>14</sup>The Alternative Fuels Data Center publishes a listing of alternative refueling locations at [www.afdc.energy.gov/locator/stations/](http://www.afdc.energy.gov/locator/stations/). The Missouri Soybean Association publishes a listing of biodiesel suppliers at [www.mosoy.org](http://www.mosoy.org). The Missouri Propane Gas Association ([www.missouripropane.com](http://www.missouripropane.com)) in Jefferson City has an on-line directory of propane refueling locations.

- o Packets for FFVs include a page highlighting Jefferson City E85 locations as well as a listing of E85 stations in Missouri.
  - o Any carpool FFVs that do not have the manufacturer provided yellow fuel caps indicating E85-capable have E85 window stickers in a visible location identifying them as E85-capable vehicles.
  - o Carpool Trip Tickets that accompany each packet for FFVs include a “Fueling” paragraph that reiterates the vehicle is an FFV and advocates use of E85.
- The State Fleet Management web page contains a dedicated page on [Alternative Fuels](#) which provides helpful information regarding alternative fuels and station locations.
- An online link to E85 station listings ([www.afdc.energy.gov/locator/stations/](http://www.afdc.energy.gov/locator/stations/)) is available for agencies to distribute through agency e-mails.
- Colored labels for vehicle packets are available from the division to identify AFVs and provide local directions to refueling facilities. E85 magnets, static window stickers, and fuel door stickers are also available from the division.
- E85 pumps at each gas station are prominently labeled.

## **VIII. Program Recommendations**

The following recommendations are based on guidance provided within Missouri Revised Statutes, Sections 414.400 – 414.417, the annual reports submitted by the agencies to the division, and through a survey of state fleet managers prior to the 2015 State Fleet Managers Workshop:

- Encourage public and private partnerships that commit to the development of alternative fuel infrastructure in the state.
- Continue to promote stakeholder involvement in the planning regarding VW Settlement funding allocated to the state.
- Encourage the utilization of the Energy Loan Program for funding public, alternative fuel transportation.
- Encourage the utilization of the Missouri Alternative Fuel Infrastructure Tax Credit for development of alternative fuel infrastructure in the state.
- Encourage the utilization of federal income tax credits for electric and plug-in hybrid cars purchased during or after 2010.
- Encourage state employees to carpool and use mass transit. The State Cafeteria Plan ([ASIFlex.com](http://ASIFlex.com)) has mass transit benefits available. In February 2016, the Division of Energy contracted with the Missouri Highways and Transportation Commission to update Rideshare information to include information on the iCarpool website sponsored by

MoDOT on six (6) existing signs and to install nine (9) new signs. Rideshare signs are currently located around the Kansas City and Jefferson City areas while new signs have been added around the Columbia and Kingdom City areas.

- Expand the use of telecommunication systems to decentralize work and reduce the need for travel to meetings, conferences and other offices. Consider options, such as e-mail, facsimile, webinars and teleconferencing, to reduce the need for travel.
- Continue to provide information and promote activities that effectively increase the use of alternative fuels in AFVs. The division and other organizations should continue to encourage agencies to purchase AFVs and promote the use of alternative fuel as a replacement for traditional vehicle fuels.
- Promote training of state employees in the operation of AFVs and refueling with alternative fuels to increase their comfort in using alternative fuels.
- Advance placement of AFVs at agency locations closest to refueling locations selling the alternative fuel used as well as foster installation of additional alternative fuel refueling stations across the state.

The following recommendations are from the Comprehensive State Energy Plan.

- Eliminate the technology-specific procurement policies for new state fleet vehicles and, instead, require adherence to fleet performance goals.
- Provide annual appropriations to the Alternative Fuel Infrastructure Tax Credit.
- Re-authorize the Alternative Fuel Infrastructure Tax Credit upon sunset.

# Appendices

# Appendix A

## Federal and Missouri Alternative Fuel Acts: Comparison of Key Provisions

Clean Air Act Public Law 101-549	Energy Policy Act Public Law 102-486	Missouri Sections 414.400 – 417, RSMo, 1999
<b>Applicability</b>		
Twenty-two metropolitan areas with populations of 250,000 or more (1980 census) with serious, severe or extreme ozone or carbon monoxide areas.	Metropolitan areas with a 1980 population of 250,000 or more.	All state-owned vehicles throughout the state.
<b>Fleets Subject to Act</b>		
Fleets of 10 or more vehicles which are centrally fueled or capable of being centrally fueled.	Fleets with at least 20 vehicles which are centrally fueled or capable of being centrally fueled in a metropolitan area; however, this requirement applies only if a fleet also has at least 50 vehicles within the United States.	State-owned fleets with more than 15 vehicles.
<b>Exemptions</b>		
<p>Vehicles that are garaged at a personal residence overnight are to be considered not capable of central fueling.</p> <p>Law enforcement vehicles.</p> <p>Emergency vehicles.</p>	<p>Private fleet vehicles that are garaged at home overnight are exempted.</p> <p>Law enforcement vehicles. The secretary of energy may terminate this exemption.</p> <p>Emergency vehicles.</p>	<p>Off-road vehicles, maintenance and construction vehicles and transport trailers.</p> <p>Law enforcement vehicles.</p> <p>Emergency vehicles.</p>
<b>Fuels</b>		
Any fuel meeting the emission standard may be used, including reformulated gasoline, clean diesel, ethanol, methanol, propane, electricity and natural gas.	Alternative fuels include methanol, ethanol, natural gas, propane, biodiesel and electricity. Reformulated gasoline is not considered to be an alternative fuel.	Alternative fuels include 85 percent methanol, 85 percent ethanol, natural gas, propane, 20 percent biodiesel, hydrogen and electricity. Reformulated gasoline is not considered to be an alternative fuel.

<b>Clean Air Act Public Law 101-549</b>	<b>Energy Policy Act Public Law 102-486</b>	<b>Missouri Sections 414.400 – 417, RSMo, 1999</b>
<b>Weight Limits</b>		
Includes automobiles and trucks up to 26,000 pounds gross vehicle weight.	Includes vehicles with a gross vehicle weight of less than or equal to 8,500 pounds.	For reporting purposes, state agencies are including only those eligible vehicles less than or equal to 8,500 pounds GVWR.
<b>Purchase Requirements</b>		
Beginning with model year 1998.	Standard Compliance Option <sup>15</sup> - beginning with designated model year:  State fleet - 75% of light-duty, non-excluded vehicles acquired must be alternative fuel vehicles.	Acquire vehicles capable of using alternative fuels:  70 percent after Jan.1, 2008. (Section 37.455)  By July 1, 2002, 30 percent of fuel used in AFVs must be an alternative fuel.
<b>Vehicle And Fuel Availability</b>		
There are no exemptions provided in the law in the event vehicles or fuel are not available.	The secretary of energy must exempt a fleet if vehicles or fuels are not available.	May reduce any percentage specified or waive requirements upon receipt of certification supported by evidence that:  1) Fuels are not available.  2) Fuels do not meet cost limitations.  3) Fuels do not meet energy conservation or emissions criteria.

<sup>15</sup>The Energy Policy Act provides for Alternative Compliance in which covered fleets may obtain a waiver from Standard Compliance to implement petroleum reduction measures in their vehicle fleets in lieu of the AFV-acquisition requirements.

***Missouri Revised Statutes***  
**Chapter 414**

**Fuel Regulation and Conservation**  
**Section 414.400**

<http://www.moga.mo.gov/mostatutes/stathtml/41400004001.html>

**Fuel Regulation and Conservation**  
**Section 414.403**

<http://www.moga.mo.gov/mostatutes/stathtml/41400004031.html>

**Fuel Regulation and Conservation**  
**Section 414.406**

<http://www.moga.mo.gov/mostatutes/stathtml/41400004061.html>

**Fuel Regulation and Conservation**  
**Section 414.410**

<http://www.moga.mo.gov/mostatutes/stathtml/41400004101.HTML>

**Fuel Regulation and Conservation**  
**Section 414.412**

<http://www.moga.mo.gov/mostatutes/stathtml/41400004121.html>

**Fuel Regulation and Conservation**  
**Section 414.415**

<http://www.moga.mo.gov/mostatutes/stathtml/41400004151.html>

**Fuel Regulation and Conservation**  
**Section 414.417**

<http://www.moga.mo.gov/mostatutes/stathtml/41400004171.HTML>



**Chapter 37**  
**Office of Administration**  
**Section 37.455.1**

<http://www.moga.mo.gov/mostatutes/stathtml/03700004551.html>

**Executive Order 95-05**

[http://www.sos.mo.gov/library/reference/orders/1995/eo1995\\_005.asp](http://www.sos.mo.gov/library/reference/orders/1995/eo1995_005.asp)

**Executive Order 13-03**

[http://www.sos.mo.gov/library/reference/orders/2013/eo13\\_003](http://www.sos.mo.gov/library/reference/orders/2013/eo13_003)

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# Appendix B

## Missouri State Fleet Performance Measurement Tables

### Average Fleet Fuel Economy

New Acquisition Passenger Cars..... B-2

New Acquisition Light-Duty Trucks..... B-3

### Percent Alternative Fuel Vehicles

New Vehicle Acquisitions..... B-4

### Percent Alternative Fuel Usage in Alternative Fuel Vehicles

B20 and Exempt Usage Not Included ..... B-5

B20 and Exempt Usage Included..... B-6

**AVERAGE FLEET FUEL ECONOMY  
NEW ACQUISITION PASSENGER CARS**

**MISSOURI STATE FLEET  
FISCAL YEAR 2016**

The CAFE standard for newly built passenger cars is 34.7 MPG. In the following table, the average vehicle fuel efficiency of new acquisition passenger cars is shown for each agency. Passenger cars include both cars and station wagons that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not report acquiring any new passenger cars that were eligible to meet state vehicle fuel efficiency requirements throughout the fiscal year.

MISSOURI STATE UNIVERSITY	55.4
DEPARTMENT OF HEALTH AND SENIOR SERVICES	55.0
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	54.8
DEPARTMENT OF INSURANCE, FIN. INSTITUTIONS AND PROF. REGISTRATION	47.6
DEPARTMENT OF MENTAL HEALTH	43.3
OFFICE OF ADMINISTRATION	41.0
SECRETARY OF STATE	40.8
DEPARTMENT OF SOCIAL SERVICES	40.4
DEPARTMENT OF NATURAL RESOURCES	39.0
DEPARTMENT OF CORRECTIONS	37.4
ATTORNEY GENERAL	37.1
DEPARTMENT OF AGRICULTURE	37.1
DEPARTMENT OF PUBLIC SAFETY	37.1
DEPARTMENT OF TRANSPORTATION	37.1
OTHER STATE ORGANIZATIONS	37.1
DEPARTMENT OF REVENUE	36.0
NORTHWEST MISSOURI STATE UNIVERSITY	36.0
UNIVERSITY OF MISSOURI	36.0
DEPARTMENT OF ECONOMIC DEVELOPMENT	32.6
SOUTHEAST MISSOURI STATE UNIVERSITY	31.3
<b>MISSOURI STATE FLEET AVERAGE</b>	<b>40.8</b>

**AVERAGE FLEET FUEL ECONOMY  
NEW ACQUISITION LIGHT DUTY TRUCKS**

**MISSOURI STATE FLEET  
FISCAL YEAR 2016**

The CAFE standard for newly built light duty trucks is 24.7 MPG. In the following table, the average vehicle fuel efficiency of all new acquisition light duty trucks is shown for each agency. Light duty trucks include trucks, vans and SUVs that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not report acquiring any new light duty trucks that were eligible to meet state vehicle fuel efficiency requirements throughout the fiscal year.

ATTORNEY GENERAL	34.0
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	34.0
DEPARTMENT OF REVENUE	34.0
DEPARTMENT OF CONSERVATION	34.0
DEPARTMENT OF AGRICULTURE	33.6
OTHER STATE ORGANIZATIONS	33.5
DEPARTMENT OF SOCIAL SERVICES	33.3
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	33.3
LINCOLN UNIVERSITY	33.3
MISSOURI STATE UNIVERSITY	32.7
DEPARTMENT OF ECONOMIC DEVELOPMENT	32.4
SOUTHEAST MISSOURI STATE UNIVERSITY	32.3
DEPARTMENT OF PUBLIC SAFETY	31.9
DEPARTMENT OF MENTAL HEALTH	31.7
UNIVERSITY OF MISSOURI	31.1
DEPARTMENT OF NATURAL RESOURCES	30.8
DEPARTMENT OF TRANSPORTATION	30.8
DEPARTMENT OF CORRECTIONS	30.7
OFFICE OF ADMINISTRATION	27.3
UNIVERSITY OF CENTRAL MISSOURI	27.3
TRUMAN STATE UNIVERSITY	25.9
SECRETARY OF STATE	22.3
<b>MISSOURI STATE FLEET AVERAGE</b>	<b>31.3</b>

**PERCENT ALTERNATIVE FUEL VEHICLES  
OF ALL NEW VEHICLE ACQUISITIONS**

**MISSOURI STATE FLEET  
FISCAL YEAR 2016**

Agencies that operate less than 16 eligible vehicles are not subject to program acquisition requirements, therefore only agencies that operate greater than 15 eligible vehicles are shown in the following table. At least 70 percent of an agency's fleet vehicle acquisitions over a one year period shall be vehicles capable of using alternative fuels. In keeping with US DOE guidelines, beginning with FY 2014, only ½ credit will be awarded for the purchase of hybrid vehicles.

DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (6)*	100.0%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (12)	100.0%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (3)	100.0%
SECRETARY OF STATE (3)	100.0%
DEPARTMENT OF CONSERVATION (1)	100.0%
DEPARTMENT OF AGRICULTURE (23)	95.7%
DEPARTMENT OF PUBLIC SAFETY (17)	94.1%
DEPARTMENT OF CORRECTIONS (58)	93.1%
DEPARTMENT OF SOCIAL SERVICES (98)	92.9%
DEPARTMENT OF MENTAL HEALTH (59)	88.1%
OTHER STATE ORGANIZATIONS (8)	87.5%
UNIVERSITY OF MISSOURI (22)	77.3%
DEPARTMENT OF NATURAL RESOURCES (68)	76.5%
DEPARTMENT OF INSURANCE, FIN. INSTITUTIONS AND PROF. REGISTRATION (8)	75.0%
OFFICE OF ADMINISTRATION (50)	68.0%
DEPARTMENT OF TRANSPORTATION (101)	56.4%
SOUTHEAST MISSOURI STATE UNIVERSITY (13)	53.8%
UNIVERSITY OF CENTRAL MISSOURI (2)	50.0%
DEPARTMENT OF REVENUE (4)	50.0%
DEPARTMENT OF ECONOMIC DEVELOPMENT (3)	0.0%
LINCOLN UNIVERSITY (1)	0.0%
MISSOURI STATE UNIVERSITY (8)	0.0%
NORTHWEST MISSOURI STATE UNIVERSITY (1)	0.0%
TRUMAN STATE UNIVERSITY (1)	0.0%
<b>AGENCIES WITH GREATER THAN 15 VEHICLES (570)</b>	<b>77.7%</b>

\*Total number of eligible vehicles purchased in parentheses

**PERCENT ALTERNATIVE FUEL USAGE  
IN ALTERNATIVE FUEL VEHICLES - B20 AND  
EXEMPT USAGE NOT INCLUDED**

**MISSOURI STATE FLEET  
FISCAL YEAR 2016**

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. If no number appears, the agency did not report any alternative fuel usage.

UNIVERSITY OF MISSOURI (61,957)*	33%
SECRETARY OF STATE (4,164)	30%
DEPARTMENT OF TRANSPORTATION (56,720)	12%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (4,758)	10%
OFFICE OF ADMINISTRATION (131,939)	9%
DEPARTMENT OF CORRECTIONS (232,028)	8%
LINCOLN UNIVERSITY (1,739)	8%
DEPARTMENT OF AGRICULTURE (106,303)	8%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (37,433)	5%
DEPARTMENT OF ECONOMIC DEVELOPMENT (9,907)	3%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (52,878)	2%
DEPARTMENT OF MENTAL HEALTH (125,617)	2%
DEPARTMENT OF NATURAL RESOURCES (107,685)	2%
DEPARTMENT OF SOCIAL SERVICES (357,906)	2%
NORTHWEST MISSOURI STATE UNIVERSITY (5,338)	1%
OTHER STATE ORGANIZATIONS (11,984)	1%
DEPARTMENT OF CONSERVATION (28,882)	0%
DEPARTMENT OF INSURANCE, FIN. INSTITUTIONS AND PROF. REGISTRATION (27,543)	0%
DEPARTMENT OF PUBLIC SAFETY (46,073)	0%
DEPARTMENT OF REVENUE (20,615)	0%
MISSOURI STATE UNIVERSITY (10,638)	0%
SOUTHEAST MISSOURI STATE UNIVERSITY (10,142)	0%
<b>MISSOURI STATE FLEET (1,452,248)</b>	<b>6%</b>

\*Total gallons of fuel consumed in parentheses in gasoline gallon equivalents (GGE). Those agencies showing 0% were less than 0.50%.

**PERCENT ALTERNATIVE FUEL USAGE  
IN NON-EXEMPT AND EXEMPT ALTERNATIVE FUEL  
VEHICLES - B20 USAGE INCLUDED IN DIESEL  
VEHICLES**

**MISSOURI STATE FLEET  
FISCAL YEAR 2016**

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. If no number appears, the agency did not report any alternative fuel usage.

DEPARTMENT OF TRANSPORTATION (4,387,281)*	32%
SECRETARY OF STATE (4,889)	25%
UNIVERSITY OF MISSOURI (169,269)	12%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (5,266)	9%
OFFICE OF ADMINISTRATION (160,712)	7%
LINCOLN UNIVERSITY (2,425)	6%
DEPARTMENT OF AGRICULTURE (158,582)	5%
DEPARTMENT OF CORRECTIONS (541,940)	4%
DEPARTMENT OF ECONOMIC DEVELOPMENT (10,107)	3%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (73,147) DEPARTMENT	3%
OF HEALTH AND SENIOR SERVICES (54,926)	2%
DEPARTMENT OF SOCIAL SERVICES (369,319)	2%
DEPARTMENT OF MENTAL HEALTH (144,386)	1%
DEPARTMENT OF NATURAL RESOURCES (283,426)	1%
DEPARTMENT OF PUBLIC SAFETY (968,464)	1%
OTHER STATE ORGANIZATIONS (12,508)	1%
DEPARTMENT OF CONSERVATION (377,395)	0%
DEPARTMENT OF INSURANCE, FIN. INSTITUTIONS AND PROF. REGISTRATION (27,543)	0%
DEPARTMENT OF REVENUE (21,523)	0%
MISSOURI STATE UNIVERSITY (10,638)	0%
NORTHWEST MISSOURI STATE UNIVERSITY (44,649)	0%
SOUTHEAST MISSOURI STATE UNIVERSITY (36,797)	0%
<b>TOTAL ALT-FUEL VEHICLES (7,878,323)</b>	<b>19%</b>

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**DIESEL VEHICLES**

DEPARTMENT OF TRANSPORTATION (3,747,820)**	37%
DEPARTMENT OF PUBLIC SAFETY (25,144)	18%
<b>TOTAL B20 USAGE (3,772,965)</b>	<b>37%</b>

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<b>MISSOURI STATE FLEET</b>	<b>19%</b>
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\*Amount in parentheses is total fuel consumption expressed in gasoline gallon equivalents

\*\*Amount in parentheses is total diesel consumption expressed in gasoline gallon equivalents

## Appendix C

### Definitions and Unit Consumption Conversion Table of Motor Vehicle Fuels

**Exempt vehicles** are vehicles operated by state agencies and designated for duties that exempt the vehicles from vehicle fuel efficiency and alternative fuel requirements. These duties include off-road, maintenance, construction, trailer transport, law enforcement and emergency vehicles. Exempt vehicles also include vehicles that exceed the 8,500 gross vehicle weight rating (GVWR).

**Eligible or non-exempt vehicles** are those vehicles operated by state agency fleets that are required to meet vehicle fuel efficiency and alternative fuel requirements. Most eligible vehicles are used primarily for commuting from one location to another on established roadways.

**Gasoline Gallon Equivalents (GGE)** is used as a unit of measure for alternative fuels. GGE is based on the fuel's energy content rather than the at-the-pump unit of measure normally shown in unit volume. An example of this is the comparison of a gallon of E85 to a gallon of gasoline. Since the energy content of E85 is less than that of gasoline, one gallon of E85 is equivalent to 0.7130 gallons of gasoline. As applied throughout this report, check Appendix C for more information on the conversion of alternative fuels from at-the-pump units of consumption to GGE.

As defined by Section 414.400, RSMo, alternative fuels are those motor vehicle fuels that are not substantially unleaded gasoline or diesel, and otherwise contribute to potential energy security and environmental benefits. Gasoline gallon equivalent (GGE) is used throughout the report as a unit of measure for alternative fuels. GGE is based on the fuel's energy content rather than the at-the-pump unit of measure, normally shown in unit volume. An example of this is the comparison of a gallon of 85 percent ethanol (E85) to a gallon of gasoline. Since the energy content of E85 is less than that of gasoline, one gallon of E85 is equivalent to 0.7130 gallons of gasoline.

### Unit Consumption Conversion Table of Vehicle Motor Fuels, At-the-Pump Units to GGE

Fuel Type	At-the-Pump Units	BTU/Unit	GGE/Unit
Gasoline	Gallon	115,000	1.0000
E85	Gallon	82,000	0.7130
Propane	Gallon	89,000	0.7739
CNG	Cubic Feet	1,000	0.0087
Diesel	Gallon	130,000	1.1304
Biodiesel (20)	Gallon	128,800	1.1200
Biodiesel (100)	Gallon	124,200	1.0800
Electric	Kilowatt hour	3,413	0.0297



# Appendix D

## State Fleet Summary Tables and Fleet Data by State Agency

Missouri State Fleet .....	D-3
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### Elected Officials

Attorney General .....	D-4
Secretary of State .....	D-5
State Auditor .....	D-6
State Treasurer .....	D-7

### Executive Departments

Department of Agriculture.....	D-8
Department of Conservation.....	D-9
Department of Corrections .....	D-10
Department of Economic Development .....	D-11
Department of Elementary and Secondary Education.....	D-12
Department of Health and Senior Services.....	D-13
Department of Higher Education.....	D-14
Department of Insurance, Financial Institutions and Professional Registration.....	D-15
Department of Labor and Industrial Relations .....	D-16
Department of Mental Health .....	D-17
Department of Natural Resources.....	D-18
Department of Public Safety.....	D-19
Department of Revenue .....	D-20

Department of Social Services.....	D-21
Department of Transportation.....	D-22
Office of Administration.....	D-23
Other State Organizations .....	D-24

## **Higher Education**

Harris-Stowe State University .....	D-25
Lincoln University .....	D-26
Missouri Southern State University .....	D-27
Missouri State University .....	D-28
Missouri Western State University .....	D-29
Northwest Missouri State University.....	D-30
Southeast Missouri State University.....	D-31
Truman State University.....	D-32
University of Central Missouri .....	D-33
University of Missouri .....	D-34

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**MISSOURI STATE FLEET  
Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	438		4,900,937	186,989		\$345,743		\$268,118
	LDTs, Vans and SUVs	1,410		8,086,099	508,428		\$1,024,991		\$684,201
	Exempt Vehicles	2,333	1,336		3,771,832		\$7,035,406		\$3,376,899
Hybrid Electric	Cars and Station Wagons	16		210,868	6,490		\$12,429		\$9,773
	LDTs, Vans and SUVs	4		44,360	1,655		\$3,181		\$2,223
	Exempt Vehicles	0	0		0		\$0		\$0
Diesel	Cars and Station Wagons	9		87,868	4,675	0	\$8,584	\$0	\$31,708
	LDTs, Vans and SUVs	67		399,041	33,092	69	\$71,403	\$122	\$71,716
	Exempt Vehicles	117	2,234		2,825,255	247,732	\$4,935,869	\$516,450	\$7,343,485
E85	Cars and Station Wagons	1,458		22,077,194	768,864	55,287	\$1,483,846	\$98,003	\$1,002,507
	LDTs, Vans and SUVs	1,065		12,677,463	600,000	58,941	\$1,161,091	\$109,493	\$682,827
	Exempt Vehicles	1,513	282		1,856,308	10,218	\$3,375,082	\$18,781	\$1,050,335
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	4		24,269	2,424	0	\$4,859	\$0	\$3,031
	Exempt Vehicles	3	7		2,077	170	\$3,814	\$232	\$6,479
All Electric	LDTs, Vans and SUVs	16		22,986		4,755		\$0	\$32,883

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

# SUMMARY TABLE VEHICLE OPERATIONS

## ATTORNEY GENERAL Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	3	0		389		\$782	\$1,673
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
E85	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	19	0		13,025	0	\$23,755	\$13,123
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

# SUMMARY TABLE VEHICLE OPERATIONS

## SECRETARY OF STATE Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	3		33,410	1,014		\$2,100		\$1,691
	LDTs, Vans and SUVs	0		0	0		\$0		\$0
	Exempt Vehicles	1	0		150		\$307		\$173
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0		\$0
	LDTs, Vans and SUVs	0		0	0		\$0		\$0
	Exempt Vehicles	0	0		0		\$0		\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	1		642	0	\$1,405	\$0	\$1,950
E85	Cars and Station Wagons	9		110,224	2,255	1,330	\$4,419	\$2,557	\$4,383
	LDTs, Vans and SUVs	4		29,177	677	397	\$1,422	\$801	\$1,720
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0	\$0
	LDTs, Vans and SUVs	0		0		0		\$0	\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE** **STATE AUDITOR**  
**VEHICLE OPERATIONS** **Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	0		0	0		\$0		\$0
	LDTs, Vans and SUVs	1		894	91		\$188		\$480
	Exempt Vehicles	0	0		0		\$0		\$0
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0		\$0
	LDTs, Vans and SUVs	0		0	0		\$0		\$0
	Exempt Vehicles	0	0		0		\$0		\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
E85	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0	\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE**  
**VEHICLE OPERATIONS**

**STATE TREASURER**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	1		985	104		\$196	\$451
	Exempt Vehicles	0	0		0		\$0	\$0
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
E85	Cars and Station Wagons	1		8,442	339	0	\$639	\$200
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF AGRICULTURE**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	3		40,328	1,350		\$2,684	\$910
	LDTs, Vans and SUVs	25		243,313	11,902		\$23,512	\$7,116
	Exempt Vehicles	1	21		36,796		\$72,814	\$18,597
Hybrid Electric	Cars and Station Wagons	1		21,871	780		\$1,495	\$182
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	15		32,071	0	\$67,902	\$21,352
E85	Cars and Station Wagons	56		883,879	26,882	3,961	\$53,532	\$28,762
	LDTs, Vans and SUVs	97		1,798,169	72,035	6,399	\$141,159	\$56,011
	Exempt Vehicles	3	8		14,812	1,721	\$30,609	\$8,409
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE**  
**VEHICLE OPERATIONS**

**DEPARTMENT OF CONSERVATION**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	2		18,867	894		\$1,953	\$2,222
	LDTs, Vans and SUVs	13		113,536	6,922		\$13,615	\$15,874
	Exempt Vehicles	545	271		861,240		\$1,702,121	\$1,042,612
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	133		175,566		\$363,061	\$227,595
E85	Cars and Station Wagons	15		148,400	5,449	9	\$10,470	\$15
	LDTs, Vans and SUVs	45		512,608	23,419	11	\$46,570	\$15
	Exempt Vehicles	129	5		150,081	59	\$296,946	\$78
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE**  
**VEHICLE OPERATIONS**

**DEPARTMENT OF CORRECTIONS**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	24		318,194	13,643		\$25,770	\$13,256
	LDTs, Vans and SUVs	39		164,811	11,983		\$21,336	\$13,154
	Exempt Vehicles	143	179		171,106		\$305,573	\$125,819
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	1		1,614	123	0	\$189	\$32
	Exempt Vehicles	0	97		221,385	0	\$415,212	\$160,439
E85	Cars and Station Wagons	174		2,670,681	104,873	9,970	\$198,570	\$17,833
	LDTs, Vans and SUVs	127		2,554,606	107,241	15,111	\$197,362	\$75,387
	Exempt Vehicles	15	35		54,710	4,305	\$97,716	\$8,312
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	3		18,773	2,031	0	\$4,100	\$564
	Exempt Vehicles	0	7		1,836	170	\$3,321	\$6,136
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF ECONOMIC DEVELOPMENT**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	2		12,677	498		\$733	\$223
	LDTs, Vans and SUVs	3		27,888	1,221		\$2,201	\$246
	Exempt Vehicles	0	1		43		\$81	\$1,679
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
E85	Cars and Station Wagons	13		166,734	5,633	434	\$10,649	\$764
	LDTs, Vans and SUVs	8		78,849	3,965	0	\$7,395	\$0
	Exempt Vehicles	1	0		200	0	\$365	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0
		0		0		0		\$0

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**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	7		88,050	2,822		\$5,474	\$2,286
	LDTs, Vans and SUVs	1		9,480	400		\$840	\$174
	Exempt Vehicles	0	4		639		\$1,180	\$665
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	35		31,605	0	\$67,031	\$64,341
E85	Cars and Station Wagons	35		505,999	15,498	1,918	\$30,102	\$25,463
	LDTs, Vans and SUVs	16		179,871	20,041	739	\$39,471	\$8,551
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE**  
**VEHICLE OPERATIONS**

**DEPARTMENT OF HEALTH AND SENIOR SERVICES**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	4		76,197	2,515		\$5,177	\$2,176
	LDTs, Vans and SUVs	1		589	112		\$233	\$438
	Exempt Vehicles	0	2		1,442		\$2,912	\$1,563
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	1		1,224		\$2,727	\$5,146
E85	Cars and Station Wagons	74		1,454,314	46,561	1,215	\$95,053	\$2,176
	LDTs, Vans and SUVs	7		112,262	5,417	47	\$10,840	\$85
	Exempt Vehicles	0	1		665	0	\$1,361	\$0
CNG	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Propane	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0				\$0
		0		0				\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF HIGHER EDUCATION**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1		8,741	262		\$477		\$44
	LDTs, Vans and SUVs	0		0	0		\$0		\$0
	Exempt Vehicles	0	0		0		\$0		\$0
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0		\$0
	LDTs, Vans and SUVs	0		0	0		\$0		\$0
	Exempt Vehicles	0	0		0		\$0		\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
E85	Cars and Station Wagons	1		8,012	244	60	\$457	\$115	\$254
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0	\$0
		0		0		0		\$0	\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE DEPARTMENT OF INSURANCE, FINANCIAL INSTITUTIONS AND PROFESSIONAL REGISTRATION**  
**VEHICLE OPERATIONS Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	9		149,290	4,976		\$9,891	\$2,783
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Hybrid Electric	Cars and Station Wagons	2		13,286	488		\$1,021	\$1,591
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
E85	Cars and Station Wagons	47		702,550	25,029	94	\$49,987	\$28,921
	LDTs, Vans and SUVs	6		54,449	2,446	0	\$5,094	\$2,543
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0	\$0	\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	15		163,031	6,634		\$13,239	\$8,204
	Exempt Vehicles	5	0		2,182		\$4,260	\$882
Hybrid Electric	Cars and Station Wagons	1		14,015	413		\$724	\$179
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	1		450	0	\$1,001	\$187
E85	Cars and Station Wagons	6		61,178	1,884	661	\$3,844	\$1,255
	LDTs, Vans and SUVs	5		47,313	2,403	0	\$4,631	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.



**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF MENTAL HEALTH**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	42		304,118	15,683		\$29,984	\$35,234
	LDTs, Vans and SUVs	64		385,647	23,629		\$43,854	\$41,253
	Exempt Vehicles	0	57		15,066		\$28,519	\$35,706
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0		0	0	0	\$0	\$0
E85	Cars and Station Wagons	154		1,740,141	64,797	2,715	\$120,941	\$4,814
	LDTs, Vans and SUVs	112		1,086,442	58,840	62	\$109,250	\$122
	Exempt Vehicles	0	18		7,049	0	\$13,928	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE** **DEPARTMENT OF NATURAL RESOURCES**  
**VEHICLE OPERATIONS** **Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	13		100,606	3,481		\$6,741	\$2,157
	LDTs, Vans and SUVs	87		932,311	45,451		\$90,081	\$41,583
	Exempt Vehicles	97	71		95,212		\$182,172	\$97,385
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	1		13,443	494		\$919	\$318
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	89		78,365	0	\$154,763	\$89,529
E85	Cars and Station Wagons	69		702,931	24,833	696	\$48,323	\$1,376
	LDTs, Vans and SUVs	155		1,510,594	79,880	2,920	\$155,534	\$5,690
	Exempt Vehicles	89	21		86,919	43	\$166,935	\$98
CNG	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Propane	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	1		5,496	393	0	\$759	\$2,467
	Exempt Vehicles	3	0		241	0	\$492	\$343
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE**  
**VEHICLE OPERATIONS**

**DEPARTMENT OF PUBLIC SAFETY**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	23		246,927	23,621		\$32,467	\$12,472
	LDTs, Vans and SUVs	23		154,434	9,580		\$19,094	\$11,213
	Exempt Vehicles	664	73		1,229,839		\$2,161,870	\$773,597
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	4	31		18,233	811	\$32,452	\$1,683
E85	Cars and Station Wagons	52		619,153	34,672	0	\$55,518	\$0
	LDTs, Vans and SUVs	28		230,114	11,401	0	\$21,915	\$0
	Exempt Vehicles	692	90		896,509	1,034	\$1,542,895	\$1,636
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE**  
**VEHICLE OPERATIONS**

**DEPARTMENT OF REVENUE**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	10		159,339	5,567		\$10,052	\$2,102
	LDTs, Vans and SUVs	1		9,862	587		\$1,107	\$186
	Exempt Vehicles	0	1		247		\$398	\$1,211
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	1		804	0	\$1,626	\$586
E85	Cars and Station Wagons	31		285,180	12,425	66	\$22,647	\$122
	LDTs, Vans and SUVs	13		190,304	8,142	0	\$14,670	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF SOCIAL SERVICES**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	33		704,441	23,677		\$47,313	\$54,943
	LDTs, Vans and SUVs	14		288,979	12,499		\$23,983	\$9,408
	Exempt Vehicles	1	87		43,211		\$86,830	\$94,696
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	3		4,279	0	\$9,411	\$4,157
E85	Cars and Station Wagons	393		7,152,227	249,784	9,285	\$498,370	\$318,090
	LDTs, Vans and SUVs	121		2,279,449	100,147	1,900	\$197,850	\$78,965
	Exempt Vehicles	7	0		6,578	0	\$12,934	\$3,042
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE**  
**VEHICLE OPERATIONS**

**DEPARTMENT OF TRANSPORTATION**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	24		294,937	9,807		\$18,399	\$17,642
	LDTs, Vans and SUVs	27		395,866	18,128		\$32,336	\$19,778
	Exempt Vehicles	534	386		1,090,806		\$2,039,297	\$796,416
Hybrid Electric	Cars and Station Wagons	2		20,136	691		\$1,277	\$591
	LDTs, Vans and SUVs	1		15,665	592		\$1,012	\$250
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	1		277	47	0	\$90	\$20,459
	LDTs, Vans and SUVs	1		1,256	42	69	\$57	\$32
	Exempt Vehicles	73	1,704		2,092,545	246,921	\$3,462,958	\$6,419,366
E85	Cars and Station Wagons	92		1,197,724	36,636	7,702	\$68,589	\$14,186
	LDTs, Vans and SUVs	28		271,959	13,399	1,674	\$24,360	\$3,062
	Exempt Vehicles	515	82		581,304	2,697	\$1,094,362	\$5,178
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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**SUMMARY TABLE  
VEHICLE OPERATIONS**

**OFFICE OF ADMINISTRATION**

**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	42		944,561	30,786		\$57,423	\$24,627
	LDTs, Vans and SUVs	83		469,556	30,611		\$56,829	\$31,738
	Exempt Vehicles	19	47		31,056		\$57,531	\$33,761
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	1	21		23,387	0	\$48,457	\$28,951
E85	Cars and Station Wagons	154		3,171,455	91,629	13,774	\$172,920	\$22,112
	LDTs, Vans and SUVs	45		605,348	28,929	2,189	\$57,094	\$1,811
	Exempt Vehicles	3	2		2,280	92	\$4,297	\$156
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0	\$0	\$0
		0		0		0	\$0	\$0

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE** **OTHER STATE ORGANIZATIONS**  
**VEHICLE OPERATIONS** **Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	2		9,886	235		\$303	\$100
	LDTs, Vans and SUVs	7		76,817	3,646		\$5,312	\$2,643
	Exempt Vehicles	0	2		723		\$1,588	\$774
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
E85	Cars and Station Wagons	14		162,005	5,846	102	\$11,970	\$5,656
	LDTs, Vans and SUVs	11		136,060	6,065	0	\$13,438	\$2,956
	Exempt Vehicles	0	1		524	0	\$1,069	\$265
CNG	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Propane	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0				\$0
		0		0		0		\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

State organizations included under the category of other state organizations are the State Offices of the Governor, Lieutenant Governor, Legislature and Judiciary.



# SUMMARY TABLE

## VEHICLE OPERATIONS

# HARRIS-STOWE STATE UNIVERSITY

Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	16		146,416	10,546		\$24,362	\$12,254
	Exempt Vehicles	0	2		820		\$1,895	\$3,603
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
E85	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

State organizations included under the category of other state organizations are the State Offices of the Governor, Lieutenant Governor, Legislature and Judiciary.

# SUMMARY TABLE VEHICLE OPERATIONS

# LINCOLN UNIVERSITY Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	23		173,968	7,937		\$15,400		\$3,111
	LDTs, Vans and SUVs	45		377,922	18,392		\$33,007		\$7,599
	Exempt Vehicles	6	0		3,718		\$6,253		\$2,550
Hybrid Electric	Cars and Station Wagons	2		16,151	652		\$1,236		\$0
	LDTs, Vans and SUVs	0		0	0		\$0		\$0
	Exempt Vehicles	0	0		0		\$0		\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	2		7,664	1,029	0	\$2,020	\$0	\$0
	Exempt Vehicles	1	1		607	0	\$1,208	\$0	\$1,786
E85	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	3		34,869	1,594	204	\$3,380	\$369	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0	\$0
		0		0		0		\$0	\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

# SUMMARY TABLE

## VEHICLE OPERATIONS

# MISSOURI SOUTHERN STATE UNIVERSITY

Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	6		38,580	1,702		\$3,320	\$3,102
	LDTs, Vans and SUVs	1		0	40		\$77	\$518
	Exempt Vehicles	31	0		8,349		\$16,281	\$16,053
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
E85	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

# SUMMARY TABLE VEHICLE OPERATIONS

## MISSOURI STATE UNIVERSITY Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	29		76,901	2,645		\$5,019	\$20,542
	LDTs, Vans and SUVs	134		214,317	24,482		\$45,735	\$79,650
	Exempt Vehicles	0	6		1,350		\$2,343	\$3,280
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	8		87,591	4,628	0	\$8,494	\$11,249
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
E85	Cars and Station Wagons	3		21,533	1,480	0	\$2,768	\$1,653
	LDTs, Vans and SUVs	10		117,042	9,158	0	\$16,524	\$13,390
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	8		4,381		0		\$14,554

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE**  
**MISSOURI WESTERN STATE UNIVERSITY**  
**VEHICLE OPERATIONS**  
**Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	24	0		14,869		\$27,061	\$7,689
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	5		5,786	0	\$11,109	\$3,689
E85	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

# SUMMARY TABLE VEHICLE OPERATIONS

## NORTHWEST MISSOURI STATE UNIVERSITY Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	10		61,406	2,752		\$5,194	\$2,066
	LDTs, Vans and SUVs	34		114,773	8,059		\$14,861	\$9,028
	Exempt Vehicles	10	37		19,953		\$35,335	\$20,571
Hybrid Electric	Cars and Station Wagons	7		122,909	3,299		\$6,334	\$5,998
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	13	0		32,368	0	\$74,482	\$54,924
E85	Cars and Station Wagons	14		119,332	5,311	38	\$9,915	\$4,115
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	5	0		2,708	38	\$5,285	\$490
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0
		0		0		0		\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

**SUMMARY TABLE** **SOUTHEAST MISSOURI STATE UNIVERSITY**  
**VEHICLE OPERATIONS** **Fiscal Year 2016**

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	10		42,456	1,627		\$3,162	\$245
	LDTs, Vans and SUVs	94		239,687	25,384		\$52,337	\$2,869
	Exempt Vehicles	33	11		16,747		\$34,166	\$1,431
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	14	3		13,314	0	\$27,649	\$210
E85	Cars and Station Wagons	3		35,904	1,412	0	\$2,889	\$81
	LDTs, Vans and SUVs	31		94,761	8,730	0	\$17,949	\$1,210
	Exempt Vehicles	6	7		11,610	0	\$24,017	\$525
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

# SUMMARY TABLE VEHICLE OPERATIONS

## TRUMAN STATE UNIVERSITY Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	16		309,011	11,539		\$21,025		\$8,781
	LDTs, Vans and SUVs	9		61,072	4,164		\$7,664		\$1,849
	Exempt Vehicles	22	0		4,996		\$9,105		\$11,297
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0		\$0
	LDTs, Vans and SUVs	0		0	0		\$0		\$0
	Exempt Vehicles	0	0		0		\$0		\$0
Diesel	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	2	3		7,860	0	\$9,593	\$0	\$17,385
E85	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
CNG	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
Propane	Cars and Station Wagons	0		0	0	0	\$0	\$0	\$0
	LDTs, Vans and SUVs	0		0	0	0	\$0	\$0	\$0
	Exempt Vehicles	0	0		0	0	\$0	\$0	\$0
All Electric	LDTs, Vans and SUVs	0		0		0		\$0	\$0
		0		0		0		\$0	\$0

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.



# SUMMARY TABLE VEHICLE OPERATIONS

## UNIVERSITY OF CENTRAL MISSOURI Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	3		5,364	354		\$668	\$3,459
	LDTs, Vans and SUVs	99		184,636	38,527		\$72,816	\$31,797
	Exempt Vehicles	16	7		9,389		\$17,745	\$14,949
Hybrid Electric	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	5		4,642	352		\$697	\$270
	Exempt Vehicles	0	10		3,761		\$7,447	\$13,886
E85	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
CNG	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Propane	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
All Electric	LDTs, Vans and SUVs	1		3,200		0		\$288

Many management functions of the Missouri State Fleet in Jefferson City are centralized under the Office of Administration. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table was provided by the Missouri State Agencies that use on-road and off-road vehicles to accomplish their official duties.

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400 - 414.417.

At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85 and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

# SUMMARY TABLE

## UNIVERSITY OF MISSOURI

### Fiscal Year 2016

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump units)		Cost	
		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel
Gasoline	Cars and Station Wagons	97		682,682	17,602		\$35,013	\$51,947
	LDTs, Vans and SUVs	573		3,309,277	195,337		\$426,176	\$334,696
	Exempt Vehicles	178	71		111,496		\$236,990	\$268,267
Hybrid Electric	Cars and Station Wagons	1		2,500	167		\$343	\$1,232
	LDTs, Vans and SUVs	2		15,252	569		\$1,249	\$1,655
	Exempt Vehicles	0	0		0		\$0	\$0
Diesel	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	58		383,865	31,546		\$68,440	\$71,381
	Exempt Vehicles	9	65		70,631		\$155,891	\$172,172
E85	Cars and Station Wagons	48		149,196	5,392		\$11,275	\$17,318
	LDTs, Vans and SUVs	193		753,217	36,070		\$75,182	\$124,455
	Exempt Vehicles	29	12		27,335		\$58,607	\$32,993
CNG	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
Propane	Cars and Station Wagons	0		0	0		\$0	\$0
	LDTs, Vans and SUVs	0		0	0		\$0	\$0
	Exempt Vehicles	0	0		0		\$0	\$0
All Electric	LDTs, Vans and SUVs	7		15,405		4,755		\$18,041

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